AMENDMENTS TO THE CLAIMS:

Please cancel claims 24, 26 and 44-45. Claims 1-22 were cancelled by a prior amendment. Claims 23, 25 and 27-43 are currently amended.

The following listing of claims will replace all prior versions of claims in the present application. No new matter has been added to the claims.

Listing of Claims:

Claims 1 to 22 have been cancelled.

- 23. (Currently amended) An electronic device A watch including:
- (a) a case containing a watch movement on which a dial is mounted, the watch movement including electronic circuits able to generate time signals to be sent to motor means controlling at least two-first and second analogue display members, wherein the analogue display members are arranged above the dial to display current time in a time mode which is a first operating mode; and the device-watch further including
- (b) a sensor for a physical magnitude, for periodic acquisition of value of the physical magnitude as a function of time in a second operating mode, wherein the sensor is connected to means for processing values capable of generating electric signals to storage means provided for storing values, wherein the device watch has a historic mode which is a third operating mode in which the processing means are arranged for generating control signals to be sent to the motor means for a display representative of stored values of the physical magnitude as a function of time so that at least a said first analogue display member of the at least two analogue display members indicates, opposite suitable graduations of the device watch, the value of a variable the change in which is linked to physical magnitude value, on condition that the variable does not give any indication relating to the time remaining before a decompression stop has to be made or any indication relating to a minimum depth not to be exceeded by a person wearing the electronic device watch when

coming up from a dive, when a-said second analogue display member of the at least two analogue display members is made to indicate information relating to a depth.

- 24. Cancelled.
- 25. (Currently amended) The <u>device watch</u> according to claim 2423, wherein in said historic mode said processing means are further arranged for generating signals to be sent to said motor means so that said at least two analogue display members remain superposed.
 - 26. Cancelled.
 - 27. (Currently amended) A watch including:
- (a) a case containing a watch movement on which a dial is mounted, the watch movement including electronic circuits able to generate time signals to be sent to motor means controlling at least first and second analogue display members, wherein said analogue display members are arranged above the dial to display current time in a time mode which is a first operating mode; and the watch further including
- (b) a sensor for a physical magnitude, for periodic acquisition of value of the physical magnitude as a function of time in a second operating mode, wherein the sensor is connected to means for processing values capable of generating electric signals to storage means provided for storing values, wherein the watch has a historic mode which is a third operating mode in which the processing means are arranged for generating control signals to be sent to the motor means for a display representative of stored values of the physical magnitude as a function of time so that said first analogue display member indicates, opposite suitable

graduations of the watch, the value of a variable the change in which is linked to physical magnitude value, on condition that the variable does not give any indication relating to the time remaining before a decompression stop has to be made or any indication relating to a minimum depth not to be exceeded by a person wearing the watch when coming up from a dive when said second analogue display member is made to indicate information relating to a depthThe device according to claim 24, and wherein in said historic mode, said processing means are further arranged for generating signals to be sent to said motor means so that at a given instant the said second analogue display member indicates elapsed time since the start of acquisition of value of physical magnitude as a function of time, whereas said first analogue display member indicates value of said the variable at said instant.

28. (Currently amended) A watch including:

- (a) a case containing a watch movement on which a dial is mounted, the watch movement including electronic circuits able to generate time signals to be sent to motor means controlling at least first and second analogue display members, wherein the analogue display members are arranged above the dial to display current time in a time mode which is a first operating mode; and the watch further including
- (b) a sensor for a physical magnitude, for periodic acquisition of value of the physical magnitude as a function of time in a second operating mode, wherein the sensor is connected to means for processing values capable of generating electric signals to storage means provided for storing values, wherein the watch has a historic mode which is a third operating mode in which the processing means are arranged for generating control signals to be sent to the motor means for a display representative of stored values of the physical magnitude as a function of time so that the first analogue display member indicates, opposite suitable graduations of the watch, the value of a variable the change in which is linked to physical

magnitude value, on condition that the variable does not give any indication relating to the time remaining before a decompression stop has to be made or any indication relating to a minimum depth not to be exceeded by a person wearing the watch when coming up from a dive when the second analogue display is made to indicate information relating to a depthThe device according to claim 24, and wherein the device includes additional means for calculating value of a second variable from said measured value of physical magnitude, wherein said processing means is arranged for generating signals to be sent to said motor means so that the said second analogue display member indicates at each instant, in said historic mode, the value of said the second variable corresponding to the value of said the variable displayed by said first analogue display member.

- 29. (Currently amended) The <u>device-watch</u> according to claim 2423, wherein said sensor is a magnetic field sensor, wherein in said historic mode, said processing means are arranged for generating signals to be sent to said motor means so that said-at least two-first and second analogue display members are aligned so as to indicate magnetic north.
- 30. (Currently amended) The <u>devicewatch</u> according to claim 23, wherein said sensor is an ambient pressure sensor.
- 31. (Currently amended) The <u>devicewatch</u> according to claim 30, wherein said first analogue display <u>member</u> indicates a measured depth.
- 32. (Currently amended) The <u>devicewatch</u> according to claim 31, further including means for automatically activating said second operating mode from said time mode in response to immersion of the <u>devicewatch</u> in water.

- 33. (Currently amended) The <u>devicewatch</u> according to claim 30, wherein said first analogue display member indicates a measured altitude.
- 34. (Currently amended) The <u>devicewatch</u> according to claim 33, wherein said second analogue display member indicates an altitude difference value.
- 35. (Currently amended) The <u>devicewatch</u> according to claim 30, wherein said first analogue display member indicates a substantially instantaneous altitude variation speed.
- 36. (Currently amended) The <u>devicewatch</u> according to claim 35, wherein additional means are provided for generating signals to be sent to said control means so that said second analogue display member further indicates, in said historic mode and at a given instant, a mean altitude variation speed calculated over a predefined period of time preceding said given instant.
- 37. (Currently amended) The devicewatch according to claim 2423, wherein the devicewatch includes a temperature sensor for measuring a physical magnitude representative of ambient temperature, said electronic circuits being capable of storing measurements of said temperature sensor to generate electric signals to be sent to said motor means so that one of said at least two first and second analogue display members indicates temperature value in said historic mode.
- 38. (Currently amended) The <u>devicewatch</u> according to claim <u>2423</u>, wherein in said second operating mode, said processing means are arranged for generating signals to be

sent to said motor means so that, during the course of said acquisition of the value of the physical magnitude, the display of the <u>devicewatch</u> is identical to the current time displayed by the at least twosaid first and second analogue <u>display</u> members in the time mode.

- 39. (Currently amended) The <u>devicewatch</u> according to claim 23, wherein in said second operating mode, said processing means are arranged for generating signals to be sent to said motor means so that said first analogue display member displays the value of said variable substantially in real time.
- 40. (Currently amended) The <u>device watch</u> according to claim 2423, wherein in said historic mode, said electronic circuits are capable of operating said motor means so that the display of the value of said variable as a function of time is performed over a predefined maximum period of time, so that when actual duration of said acquisition of the value of the physical magnitude is greater than said predefined period of time, the value of said variable as a function of time is displayed in an accelerated manner.
- 41. (Currently amended) The <u>devicewatch</u> according to claim 23, wherein said electronic circuits are arranged for periodically storing said measured values in said second operating mode.
- 42. (Currently amended) The <u>devicewatch</u> according to claim 41, wherein said electronic circuits are arranged for altering the storage <u>period interval</u> of said measured values as a function of the actual duration of said acquisition of the value of the physical magnitude.

- 43. (Currently amended) The <u>devicewatch</u> according to claim 23, wherein the <u>devicewatch</u> further includes a liquid crystal display for displaying complementary information to indications provided by said at least two analogue display means.
 - 44-45. Cancelled.